CONTENTS

Volume 39, 1988

Special Issue: Metallogeny of the Early Precambrian

Contents, special issue vii
Editorial Foreword ix
Research Papers
Early Proterozoic tectonic styles and associated mineral deposits of the North China Platform
Q. Zhang (Jilin, People's Republic of China) 1
Structural deformation and mineralization in the Early Proterozoic Liaojitite Suite, eastern Liaoning Province, China
Z. Yang, S. Li and B. Yu (Changchun, People's Republic of China), D. Gao and C. Gao (Liaoning, People's Republic of China) 31
Depositional environment and metamorphism of early Proterozoic iron formation in the Lüliangshan region, Shanxi Province, China
J. Zhu, F. Zhang and K. Xu (Nanjing, People's Republic of China) 39
The geological characteristics and metallogenetic control factors of the Lianshanguan uranium deposit, northeast China
J. Zhong and Z. Guo (Shenyang, People's Republic of China) 51
The metamorphic petrology of the Susong Group and the origin of the Susong phosphorite deposits, Anhui Province
L. Sang and Z. You (Wuhan, People's Republic of China) 65
Metallogeny of early Precambrian granulite facies terrains
M.B. Katz (Kensington, N.S.W., Australia) 77
Metallogeny of the Precambrian in Iran
B.A. Samani (Tehran, Iran) 85
Genesis and evolution of the ore deposits in the early Precambrian greenstone belts and adjacent high grade metamorphic terrains of Peninsular India — a study in similarity and contrast
S.C. Sarkar (Calcutta, India) 107
On a Sn–W-bearing iron-formation in the Archaean Malene supracrustals, West Greenland
P.W.U. Appel (Copenhagen, Denmark) 131

Research Papers
Spectral analysis of a Precambrian limestone–shale sequence, Lower Vindhyan, India
B.K. Chatterjee and P.K. Sen (Varanasi, India) 139
Stratigraphy and sedimentology of Sturtian glacigenic deposits in the western part of the North Flinders Basin, South Australia
G.M. Young (London, Ont., Canada) and V.A. Gostin (Adelaide, S.A., Australia) 151
Geochronological constraints on the tectonic evolution of a late Archaean greenstone belt, Wabigoon Subprovince, northwest Ontario, Canada
D.W. Davis, R.H. Sutcliffe and N.F. Trowell (Toronto, Ont., Canada) 171
Geology, geochemistry and tectonic setting of Archaean greywackes from Karnataka Nucleus, India
S.M. Naqvi, D.V. Subba Rao, P.K. Govil, T. Gnaneswar Rao (Hyderabad, India) and R.H. Sawkar (Bangalore, India) 193

Discussion
Zircon U–Pb versus Rb–Sr whole-rock age data from eastern Finland: a critical comment on the papers of Barbey & Martin and Martin, Precambrian Research, Vol. 35, 1987
M. Vaasjoki (Espoo, Finland) 217

Reply
Zircon U–Pb versus Rb–Sr whole-rock age data from eastern Finland
H. Martin (Rennes, France) and P. Barbey (Vandoeuvre-les-Nancy, France) 221

Research Papers

Palaeovolcanology and tectonic setting of a Proterozoic metatholeiitic sequence near the Baltic Shield margin, northern Norway
S.G. Berg and T. Torske (Tromso, Norway) 227

Chemistry, petrology and origin of banded iron-formation lithologies from the 3800 Ma Isua Supracrustal Belt, West Greenland
R.F. Dymek (St. Louis, MO, U.S.A.) and C. Klein (Albuquerque, NM, U.S.A.) 247

Discussion

Carbonaceous filaments from North Pole, Western Australia: are they fossil bacteria in Archean stromatolites? A discussion
S.M. Awramik (Santa Barbara, CA, U.S.A.), J.W. Schopf (Los Angeles, CA, U.S.A.) and M.R. Walter (Canberra, A.C.T., Australia) 303

Reply

Carbonaceous filaments from North Pole, Western Australia: are they fossil bacteria in Archaean stromatolites? A reply
R. Buick (Cambridge, MA, U.S.A.) 311

Book Review

Stable Isotopes in High Temperature Geological Processes. Reviews in Mineralogy, Volume 16, by P.H. Ribbe, J.W. Valley, H.P. Taylor, Jr. and J.R. O'Neil (Editors) – S. Hoernes 319

Contents of Volume 39 321